

SERVICE MANUAL

KD-1500



BELT DRIVE TURNTABLE



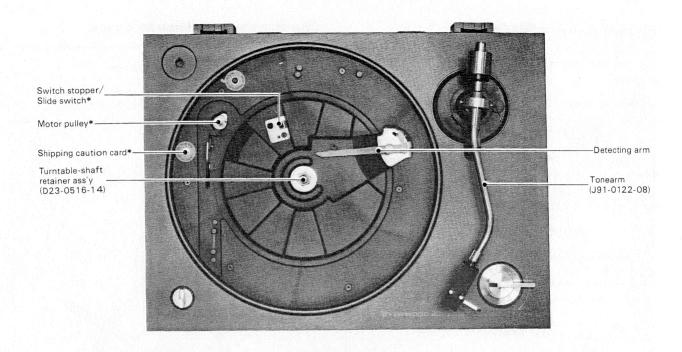
EXTERNAL VIEW

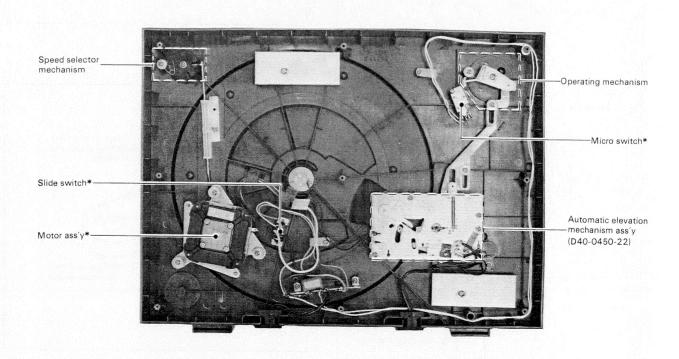






INTERNAL VIEW

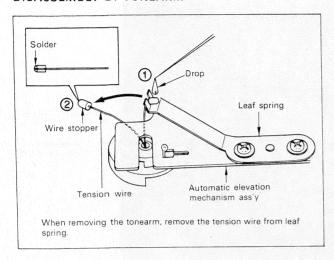


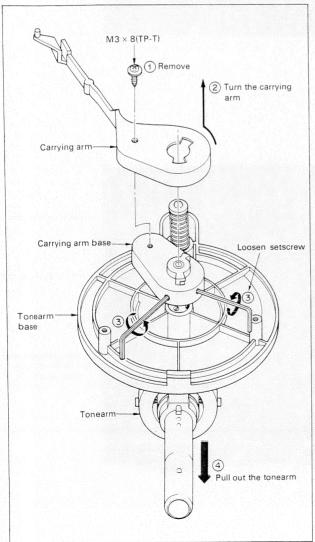




DISASSEMBLY FOR REPAIR

DISASSEMBLY OF TONEARM

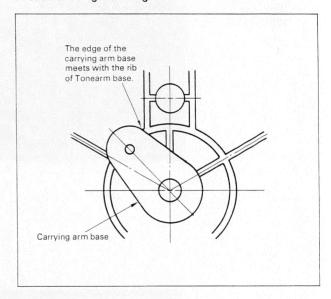




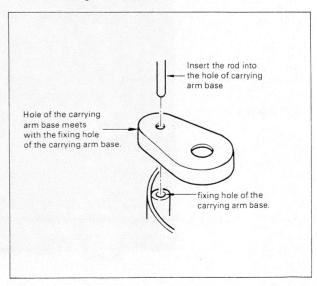
HOW TO FIX THE CARRYING ARM BASE

- 1 Set the tonearm to the tonearm rest.
- 2 Fix the carrying arm as figure.
- 3 Turn the carrying arm slightly on the carrying arm base and fix the carrying arm with the screw.

In case of being No fixing hole



In case of using the fixing hole

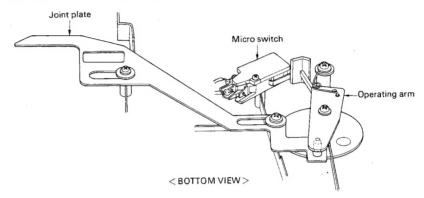




MECHANISM DESCRIPTION

AUTOMATIC ELEVATION MECHANISM

When the OPERATION LEVER is pulled toward the front side (PLAY mode), the OPERATING ARM which is located under the OPERATION LEVER traces circular arcs and turns the microswitch (POWER switch) on. The OPERATING ARM also moves the JOINT PLATE by the other end of the arm.



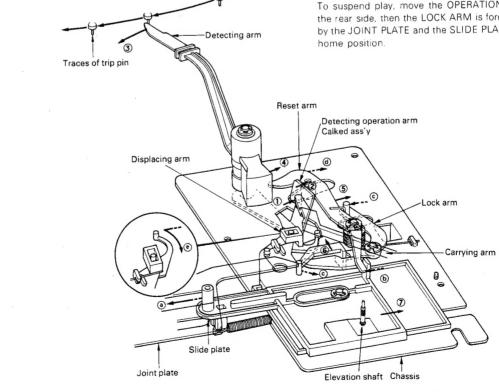
/ The JOINT PLATE is pulled toward the front side when play starts (@). The JOINT PLATE pulls the SLIDE PLATE (16). Then, the SLIDE PLATE is fixed by the LOCK ARM. Before the SLIDE PLATE is fixed, the DISPLACING ARM attached to the SLIDE PLATE pushes the DETECTING OPERATION ARM CALKED ASS'Y and stands vertically (@) to prevent the DETECTING ARM from automatic elevation operation. At the same time, the MUTING switch is turned off before the LOCK ARM fixes the SLIDE PLATE (@).

The TONE ARM is lowered by means of the slope of the SLIDE PLATE and the spring of the elevation shaft.

The automatic elevation mechanism is now set.

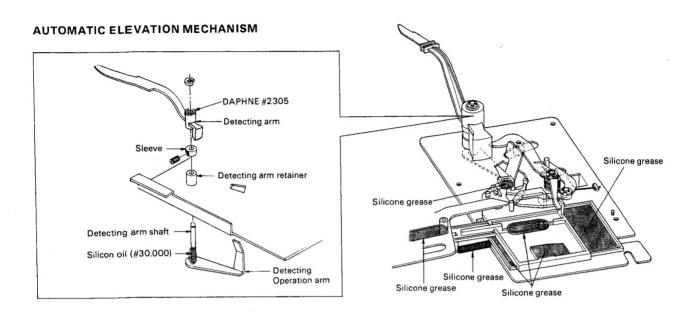
As play draws to an end, the CARRYING ARM located under the TONEARM pushes the DETECTING OPERATION ARM CALKED ASS'Y(1), 2), so that the DETECTING ARM is moved by the DETECTING OPERATION ARM CALKED ASSY to near the track of the TRIP PIN which is attached to the TURNTABLE PLATTER (3). The DETECTING ARM pushes the RESET ARM((3)) when it is swung by the TRIP PIN, then the LOCK ARM is pressed to release the SLIDE PLATE(\$), (6). The SLIDE PLATE returns to the home position by means of spring (\mathfrak{D}). During this operation, the LOCK ARM turns the MUTING switch on and the DISPLACING ARM returns to the home position. And, the ELEVATION SHAFT rises according to the slope of the SLIDE PLATE.

To suspend play, move the OPERATION LEVER toward the rear side, then the LOCK ARM is forced to be moved by the JOINT PLATE and the SLIDE PLATE returns to the home position.

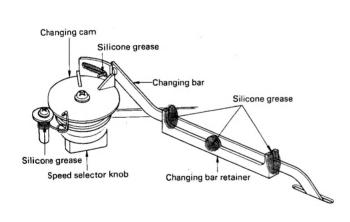




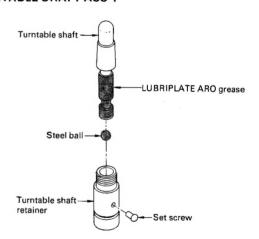
LUBRICATIONS



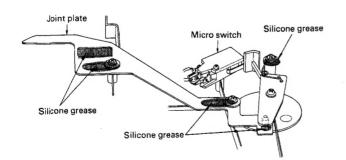
SPEED SELECTOR MECHANISM



TURNTABLE SHAFT ASS'Y



OPERATION MECHANISM



Oil	Parts No.
Silicone grease	W01-9990-00
DAPHNE #2305	W01-9995-09
LUBRI PLATE ARO grease	W01-9996-09
Silicone oil (#30,000)	W01-9998-09

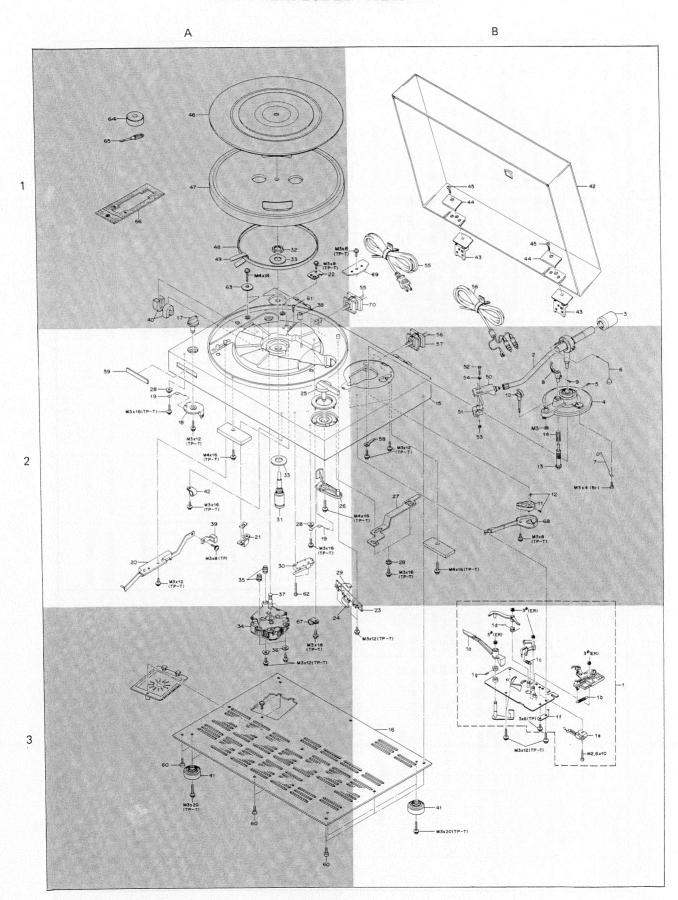


DESTINATIONS' PARTS LIST

⊅: New Parts	Parts									dul O citer o	
Ref.	U.S.A.	Canada (P)	X O	Australia (X)	Europe (W)	Scandinavia (L)	England (T)	South Africa (S)	Other Area (M)	(H)	Description
5 5	A02-0316-15	A02-0316-15	A02-0316-15	A02-0316-15	A02-0316-15	A02-0316-15	A02-0317-05	A02-0316-15	A02-0316-15	A01-0316-15	Turntable case ☆
9	B23-0004-04	ŀ	ì	ı		ı	B23-0004-04	042 0624 04	R43-0534-04	B43-0534-04	Overhang gage Turntable case badge ∵
23	B43-0534-04	B43-0534-04	B43-0534-04	B43-0534-04	B43-0534-04	B43-0534-04 -	B46-0060-00	10-100-010	1	B46-0062-20	Warranty card
1	B46-0061-20	B46-0055-20	B46-0063-00		ı	ı	ı	1	- 6		Varianty card
1 1	B50-2298-00	B50-2292-00	B50-2298-00	B50-2298-00	B50-2298-00	B50-2298-00	B50-2299-00	B50-2298-00 -	B50-2232-009	1	KENWOOD Service stations' list
1 8	- 0000		859-0018-00 859-0020-04	B59-0020-04	B59-0020-04	B59-0020-04	B59-0020-04	B59-0020-04	B59-0301-04	859-0020-04	Shipping caution card
24	C90-0145-05.	C91-0025-05	C91-0308-05	C91-0308-05	C54-3310-39	C54-3310-39	C54-3310-39	C91-0308-05	C91-0308-05	C54-3310-39	Capacitor 0.01 µF
27	ı	1	015-0162-04	D15-0162-04	D15-0162-04	D15-0162-04	015-0162-04	D15-0162-04	015-0162-04	D15-0162-04	Motor pulley (50 Hz)
22	D15-0163-04	D15-0163-04	D15-0163-04 D32-0080-24	D15-0163-04 D32-0080-24	D15-0163-04 D32-0080-24	D15-0163-04 D32-0080-24	1 1	D15-0163-04	D32-0080-24	D32-0080-24	Switch stopper
23	E22-0424-05 E30-0181-05	E22-0424-05 E30-0181-05	E22-0424-05 E30-1317-15	E22-0424-05 E30-0185-05	E22-0424-05 E30-0459-05	E22-0424-05 E30-0459-05	E30-0587-05	E22-0424-05 E30-0587-05	E22-0424-05 E30-1317-15	E22-0424-05 E30-0459-05	Lug type terminal strips Power cord
0 0	F07-0610-04	F07-0610-04	ŀ	1	ı	1	F07-0610-04	ı	ı	ı	Hole cover plate
3	H01-2312-14	H01-2313-14	H01-2312-14	H01-2312-14	H01-2312-14	H01-2312-14	H01-2321-04	H01-2312-14	H01-2312-14	H01-2312-14	Carton box ☆
9	142.0312-05	.142-0312-05	J42-0312-05	142-0306-05	J42-0312-05	J42-0312-05	342-0312-05	J42-0312-05	J42-0312-05	J42-0312-05	Cord bushing
52	N09-0850-04	₩ N09-0817-05		N09-0843-08	N09-0843-08	N09-0843-08	N09-0850-04	N09-0843-08	N09-0843-08	N09-0843-08	Cartridge mounting screw (M 2.6×10) Cartridge mounting screw (M 2.6×15)
	N09-0851-04	1		1 1	1 1		N09-0852-04	ı	1	70 5250 0014	Cartridge mounting screw(M 2.6 × 20)
61	N09-0852-04	1 1	N09-0167-05	N09-0167-05	N09-0167-05	N09-0167-05	- 20 000	N09-0167-05	N09-0167-05	N09-0167-05	Cartridge mounting nut
53 54	N19-0412-04 N19-0175-09	N14-0108-05 N19-0516-05	N14-0108-05 N19-0516-05	N14-0108-05 N19-0516-05	N14-0108-05 N19-0516-05	N19-0516-05	N19-0175-04	N19-0516-05	N19-0516-05	N19-0516-05	Cartridge mounting washer
29	R40-8312-06	R40-8312-06	R40-8312-06	R40-8312-06	R40-8312-06	R40-8312-06	B40-8312-06	R40-8312-06	R40-8312-06	R40-8312-06	Resistor 12t/ ±10% 1/2W
21	ı	ı	531-2001-05	S31-2001-05	\$31-2001-05	S31-2001-05	Ī	531-2001-05	831-2001-05	531-2001-05	Slide switch (power voltage selector)
30	S5Ó-1017-05 S5O-1310-05	S50-1017-05 S50-1310-05	S50-1017-05 S50-1310-05	S50-1017-05 S50-1310-05	\$50-1017-05	\$50-1017-05 _	\$50-1017-05 × 2	\$50-1017-05 \$50-1310-05	\$50-1017-05 \$50-1310-05	S50-1017-05 -	Micro switch or Micro switch ☆
51	ı	T21-0057-05 (V-48)	721-0067-05	121-0067-05	T21-0067-05	121-0067-05	1	121-0067-05	121-0067-05	T21-0067-05	Cartridge the (V-39 MKIII)
34	141-0118-05	741-0118-05	T41-0112-05	141-0112-05	T41-0116-05	141-0116-05	T41-0116-05	T41-0112-05	T41-0112-05	141-0116-05	Motor ass'y ☆
65	1	1	W01-0035-00	W01-0035-00	W01-0035-00	W01-0035-00	1	W01-0035-00	W01-0035-00	W01-0035-00	Small screw driver
	ı	1	. 1	1	ı	1	X27-1300-61	ı	ı	1	Power supply PCB ass'y 守



EXPLODED VIEW





EXPLODED VIEW PARTS LIST

☆: New parts, ★: refer to Destinations' parts list (p. 7).

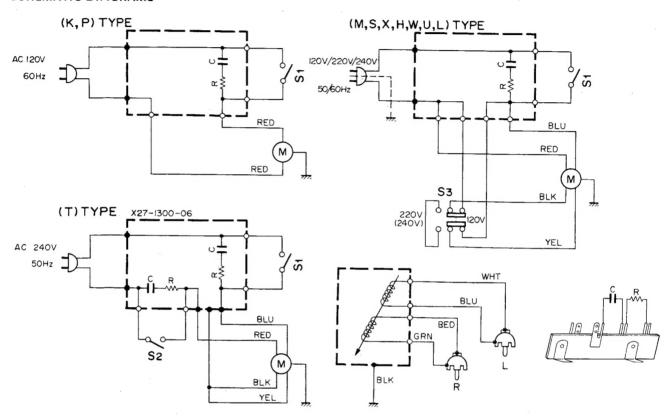
Ref. No.	Parts No.	Description	Remarks	F	Ref. No.	Parts No.	Description
		Automatic elevation mechanism ass'y	☆ 3B		51	*	Cartridge
1	D40-0450-22		☆ 3B		52	*	Cartridge mounting screw
1a	D10-0562-04	Detecting arm	☆ 3B	1 1	53	*	Cartridge mounting nut
1b	G01-0708-14	Tension spring A	☆ 3B	1	54	*	Cartridge mounting wash
1C	G01-0709-14	Tension spring B	☆ 3B	1 1	55	*	Power cord
1 d	G01-071 1-04	Torsion spring C	3B	1	56	E30-1332-05	Audio cord
1 e	S46-201 3-13	Muting switch	☆ 3B	1 1	57	J42-0312-05	Cord bushing
1f	G02-031 5-14	Leaf spring	3B	11	58	J19-0306-05	Lead holder
1 g	N72-2604-46	Set screw	☆ 2B	1 1	59	*	Turntable case badge
2	J91-0122-08	Tonearm	☆ 1B	1 1	60	N09-0587-05	Tapping screw
3	D91-0117-08	Weight ass'y	☆ 2B	1 1			
4	J19-1293-08	Tonearm base	2B	1 1	61	*	Polycarbonate screw
5	N77-4010-45	Mounting screw	☆ 2B	1 1	62	N09-0857-05	Tapping screw (M3 × 20
6	D91-0118-08	Canceller weight ass'y		1 1	63	*	Shipping caution card
7	J19-1294-08	Canceller stand	1	1 1	64	W01-0057-14	EP adaptor
8	D39-0085-08	Tonearm support ass'y		1 1	65	*	Small screwdriver
9	N73-2604-46	Mounting screw	2B	1 1	66	*	Overhang gage
10	D39-0087-08	Tonearm rest	☆ 2B	11	67	J61-0050-15	Nylon cramper
				1 1	68	D10-0569-04	Carrying arm
11	J19-1295-08	Carrying tonearm base	☆ 2B	11	69	*	Hole cover plate
12	N77-3004-45	Mounting screw	28		70	*	Cord bushing
13	D21-0658-08		☆ 2B		/0		00.0
14	G01-0713-08	Compression spring	☆ 2B		1	H10-2245-02	Polystyrene foamed fixt
15	*	Turntable case	☆ 2B		-	H10-2219-02	and Consul Cons
16	A40-0532-05	Bottom board	☆ 3B		_	H12-0317-04	
17	K29-0651-14		☆ 1A		-	H12-0317-04	
18	D12-0214-04		☆ 2A	1	_	H12-0345-02	
19	G01-0712-14		☆ 2A	1		H25-0029-04	
20	D10-0565-04		☆ 2A	1	-	H25-0078-04	
20				- 1	_	H25-0159-04	
21	*	Slide switch	2A		-	H25-0155-04	101/011/10110
22	*	Switch stopper	1A		1		
23	*	Lug type terminal strips	3B	1	1		
24	*	Capacitor	3A	1	1		
25	K29-0652-04	4 Operating lever	☆ 2A	- 1	1		
26	D10-0568-1		☆ 2A	l			
27	D22-0301-0		☆ 2B	- 1	i		
28	J31-0428-04		☆ 2A,2	В	1		
29	*	Carbon resistor	2B	- 1	Į.		,
30		Micro switch	2A				
	D23-0516-1	4 Turntable-shaft retainer ass'y	☆ 2A	1	1		
31			1A	- 1	1		
32			☆ 1A		i		
33	1 .	Motor ass'y	3A	- 1	1	1	
34			☆ 2A	- 1	1		
35			3A		- 1		
36		Motor pulley	2A	- 1	1		
37			1A	- 1			
38			2A	- 1			
39		1	☆ 1A				
		ar I besideter	☆ 3A.	зв			
	1 J02-0329-		☆ 1B	- 1			
	2 A53-0221-		1B	- 1	1		
	3 J50-0307-	1. (2)	18		1		
	4 J50-0308-		1B		1		
1	5 N33-4008		☆ 1A		1		
	6 G16-0326		☆ 1A	1	- 1		
	7 D02-0026		1A				
1	18 D16-0057	2	1A	1	1		
	19 J69-0019	1ape	☆ .2B		1		
	50 J92-0056	-05 Lead shell					
				Ì		•	
1	L .	1					

51 52 53 54 55 56 57 58 59 60	* * * E30-1332-05 J42-0312-05 J19-0306-05 * N09-0587-05	Cartridge Cartridge mounting screw Cartridge mounting nut Cartridge mounting washer Power cord Audio cord Cord bushing Lead holder Turntable case badge Tapping screw Polycarbonate screw	1B 1B 1B 1B 1B 1B.2B 1B.2B 2B 2B 2A 3A
61 62 63 64 65 66 67 68 69 70	* N09-0857-05 * W01-0057-14 * J61-0050-15 D10-0569-04 *	Tapping screw (M3 × 20) Shipping caution card EP adaptor Small screwdriver Overhang gage Nylon cramper Carrying arm Hole cover plate Cord bushing	☆ 2A 1A 1A 1A 1A 2A ☆ 2B 1A 1B
	H10-2245-02 H10-2219-02 H12-0317-04 H12-0344-04 H12-0345-02 H25-0029-04 H25-0078-04 H25-0159-04	Polystyrene foamed fixture (B) Buffer fixture (B) Carton board Buffer fixture (A) Polyethylene bag × 3 Polyethylene bag	* ☆ ☆

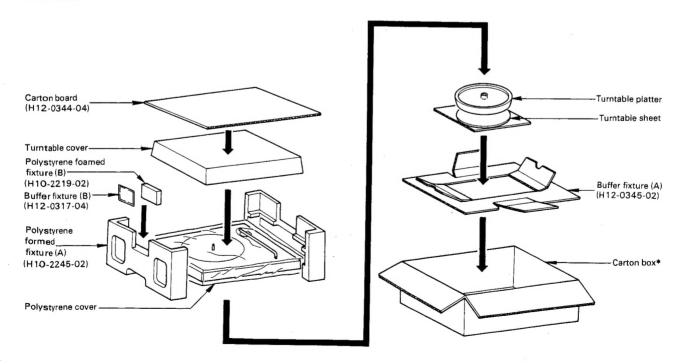


SCHEMATIC DIAGRAMS/PACKING

SCHEMATIC DIAGRAMS



PACKING





SPECIFICATIONS

MOTOR AND TURNTABLE	
Drive System	Belt drive system
Motor	4 pole synchronous motor
Turntable Platter	30 cm (12 inch) diameter
	die-cast aluminum alloy
	Weight: 0.55 kg (1.2 lbs)
Speed	2 Speeds, 33-1/3 and 45 r.p.m.
Wow and Flutter	Less than 0.05% (WHMS)
Rumble	DIN weighted better than -65 dB
TONE ARM	
Type	Static balance type.
	S-Shaped tubular arm,
	EIA plug-in connector
Effective Tonearm Length	225 mm (8-7/8 inch)
Overhang	15 mm (9/16 inch)
Tracking Error	±1.5 degrees
Tracking Force Variable	
Range	0 to 3 grams
Usable Cartridge Weight	4 to 10 grams
CARTRIDGE	
	Equiped with the V-39MKIII or V-48 Car-
tridge.) Furnished Cartridge	. V-39MKIII or V-48
Stylus	N-39MKIII or N-48 with
Stylus	0.5 mil diamond
Frequency Response	. 20 Hz to 20,000 Hz
Output Voltage	. 2.3 mV (1,000 Hz, 5 cm/sec.)
Ontimum Tracking Force	. 1.5 + 0.30 grams V-39MKIII
Optimality (1905)	2.0 ± 0.5 grams V-48
Load Impedance	47k ohms
Replacement Stylus	N-39MKIII/N-48
	Auto-up/cut tone arm mechanism,
ADDITIONAL PERIORES	Anti-skating device,
	Viscous-damped cueing device,
	Headshell stand,
	Tracking force direct-readout counter,
	Plug-in type headshell,
	Built-in isolator
MISCELLANEOUS	AC 120V, 60 Hz: U.S.A. and
Power Requirements	Canada model
	AC 240V, 50 Hz: U.K. model
	AC 120/220V (Switchable),
	50/60 Hz: European model
	AC 120/240V (Switchable),
	50/60 Hz: Others
Power Consumption	8 watts
Dimensions	W 468 mm × H 140 mm × D 363 mm
	W 18-7/16" × H 5-1/2" × D 14-5/16"
Weight	4.8 kg (10.6 lbs)
SUPPLIED ACCESSORIES	
CABINET	
Material	Construction of cabinet is injection
	molded from limestone powders.
	poly-propylene powders and other
	inorganic filamentous

For this reason specifications may be changed without notice.)

Entraînement	
Moteur	
Plateau	Diamètre de 30 cm (12 pouces)
	coulé en coquille, en alliage d'aluminium
	Poids 0,55 kg (1,2 livres)
Vitesse	2 vitesses, 33-1/3 et 45 tours
Pleurage et sautillement	Pondéré DIN, mieux que — 65 dB
Grognement	Pondere Diff, miedx que — 05 db
BRAS DE LECTURE	
	Bras tubulaire en S, statiquement équi- libré, connecteur enfichable EIA
Longueur effective	225 mm (8-7/8 pouces)
Dépassement par rapport	(0/10
à l'axe du plateau	
Erreur de piste	±1,5 degre
Gamme variable de force	0 à 3 grammos
d'appui Poids utile de la cellule	
	4 a 10 grammes
CELLULE	
	s et le Royaume-Uni ne sont pas équipés de
la cellule V-39MKIII ou V-48.)	
Cellule fournie	. N-39MKIII ou N-48 avec diamant de 0,5
Pointe d appui	mil.
Réponse de fréquence	
Tension de sortie	. 2,3 mV (1,000 Hz, 5 cm/sec.)
	· 1,5 + 0,3, -0 grammes V-39MKIII
	2.0 ± 0.5 grammes V-48
Impédance de charge	
Pointe de rechange	N-39MKIII/N-48
AUTRES	Système automatique d'arrêt/retour du
Caracteristiques	bras
	Dispositif anti-skating
	Léve-bras hydraulique
	Porte-coquille de cellule
	Bague graduée indiquant la force
	d'appui
	Coquille de cellule enfichable
	Isolateur incorporé
DIVERS	
Alimentation	CA 120V, 60 Hz: Modèle Etats-Unis
	et Canada
	CA 240V, 50 Hz: Modèle Royaume-Uni
	CA 120/220V (commutable),
	50/60 Hz: Modèle européen CA 120/240 (commutable).
	50/60 Hz: Autres
Consommation	
Dimensions	W 468 mm × H 140 mm × D 363 mm
Poids	4,8 kg (10,6 livres)
ACCESSOIRES FOURNIS	
	Adaptated 49 todis
COFFRET	
Matériel	Construction Moulée à Injection de pou-
	dres Calcaires, de poudres Poly-Pro-
	pylène et autres Filaments inorganiques.

(Kenwood follows a policy of continuous advancements in development.

(KENWOOD appliquant une politique de progrès continus, les spécifications peuvent être modifiées sans préavis.)